Transport in Porous Media **18**: (1995).

Contents of Volume 18

Volume 18 No. 1 January 1995

I. POP, D. B. INGHAM and I. MISKIN / Mixed Convection in a Porous Medium Produced by a Line Heat Source 1–13

Z. -X. CHEN, G. S. BODVARSSON, P. A. WITHERSPOON and Y. C. YORTSOS / An Integral Equation Formulation for the Unconfined Flow of Groundwater with Variable Inlet Conditions 15–36

J. YIN, J. R. FELDKAMP, K. -Y. CHUNG and R. J. FINNO / Electro-osmotic Pore Pressures in Soil due to an Alternating Electrical Field 37–63

F. J. LEIJ and M. TH. VAN GENUCHTEN / Approximate Analytical Solutions for Solute Transport in Two-layer Porous Media 65–85

Technical Note

W. ROSE / Ideas about Viscous Coupling in Anisotropic Media 87–93

Volume 18 No. 2 February 1995

D. A. LOCKINGTON and J.-Y. PARLANGE / Approximate Formulae for the Wetting Front Position and Boundary Water-Content During Horizontal Infiltration 95–105

Y. C. YORTSOS / A Theoretical Analysis of Vertical Flow Equilibrium 107–129

R. GUTFRAIND and A. HANSEN / Study of Fracture Permeability Using Lattice Gas Automata 131–149

J. BEAR and J. J. NITAO / On Equilibrium and Primary Variables in Transport in Porous Media 151–184

R. E. HAYES, A. AFACAN and B. BOULANGER / An Equation of Motion for an Incompressible Newtonian Fluid in a Packed Bed 185–198

Volume 18 No. 3 March 1995

Special Issue on

EFFECTIVE CONSTITUTIVE LAWS FOR HETEROGENEOUS POROUS MEDIA

Edited by

RACHID ABABOU

Institut Mécanique des Fluides, Toulouse, France

and

ROLAND LENORMAND

Institut Français du Pétrole, Rueil-Malmaison, France

Introduction 199–201

ROGER R. EATON and JAMES T. McCORD / Effective Hydraulic Conductivities in Unsaturated Heterogeneous Media by Monte Carlo Simulation 203–216

JIM CONSTANZ / Determination of Water Retention in Stratified Porous Materials 217–229

GILBERTO E. URROZ, YANG MA, and MARIAN W. KEMBLOWSKI / Advective and Dispersive Mixing in Stratified Formations 231–243

ROLAND LENORMAND / A Stream Tube Model for Miscible Flow. Part 1: Macrodispersion in Random Porous Media 245–261

ROLAND LENORMAND and BIAO WANG / A Stream Tube Model for Miscible Flow. Part 2: Macrodispersion in Porous Media with Long Range Correlations 263–282

K. HUANG, N. TORIDE, and M. TH. VAN GENUCHTEN / Experimental Investigation of Solute Transport in Large, Homogeneous and Heterogeneous, Saturated Soil Columns 283–302